

● FIG. 1a

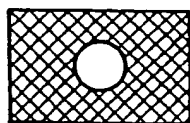


FIG. 1b

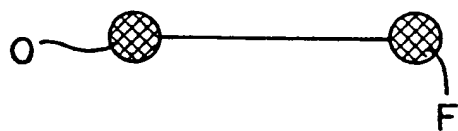


FIG. 1c

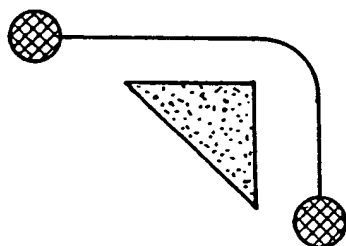


FIG. 1d



FIG. 1e

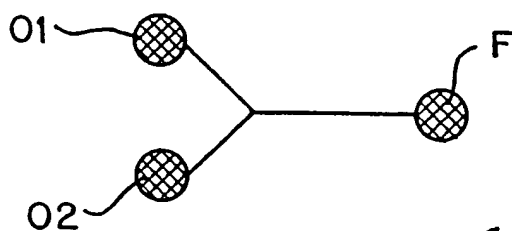


FIG. 1f

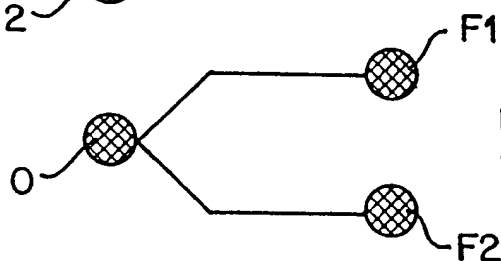


FIG. 1g

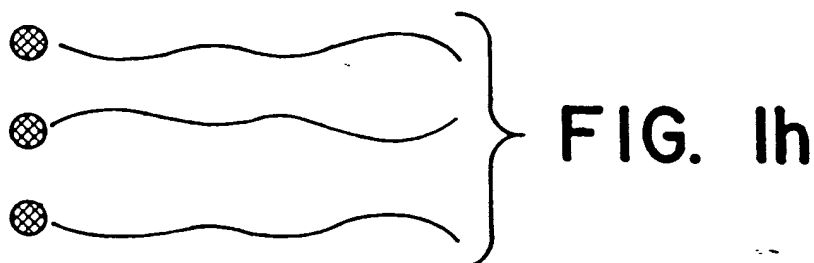


FIG. 1h

FIG. 2A

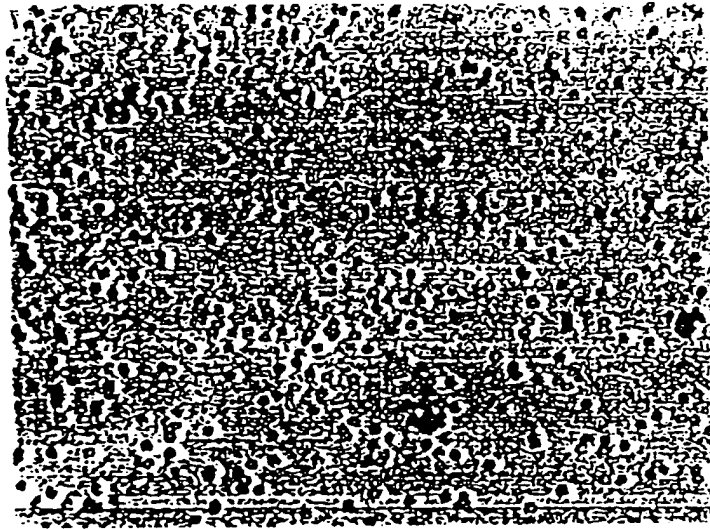


FIG. 2B

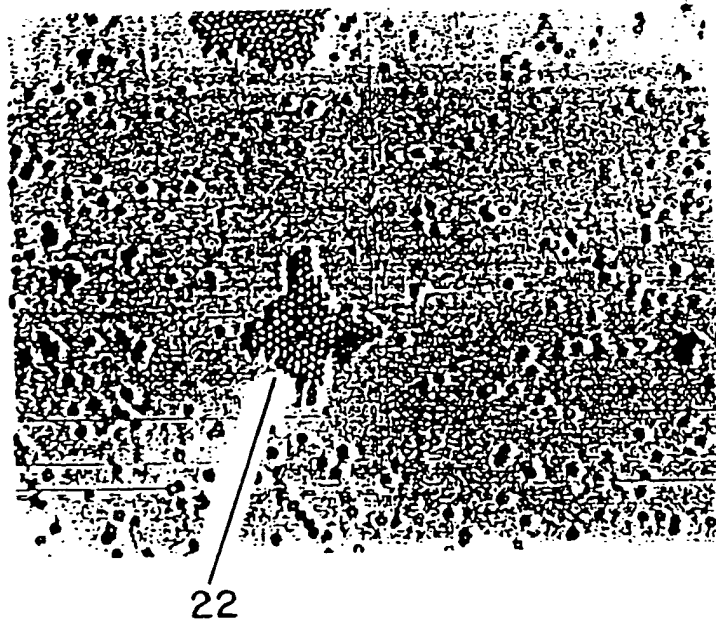


FIG. 2C

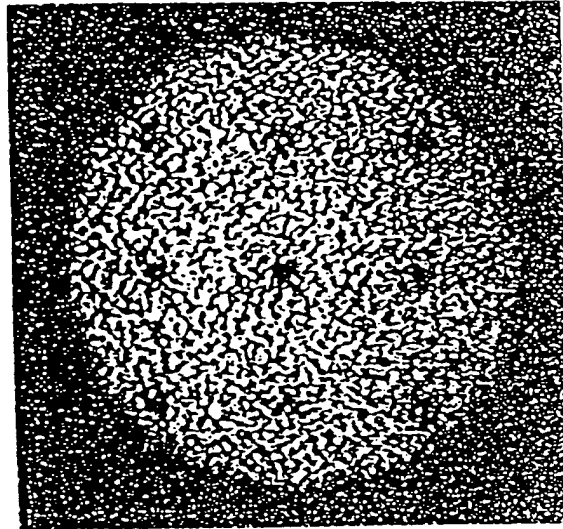


FIG. 2D

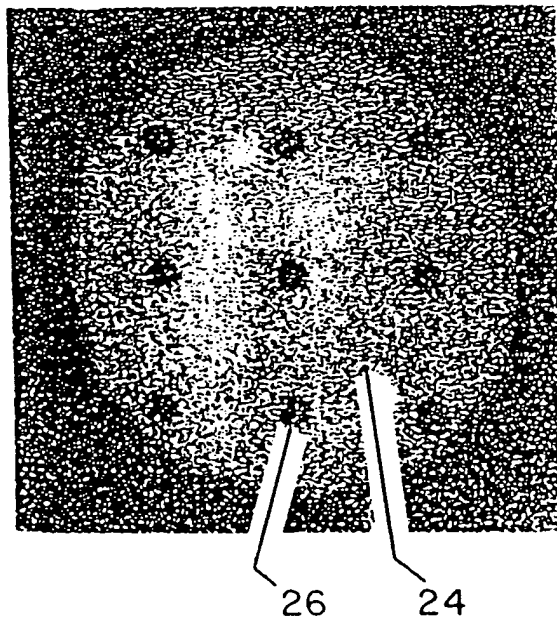


FIG. 3a

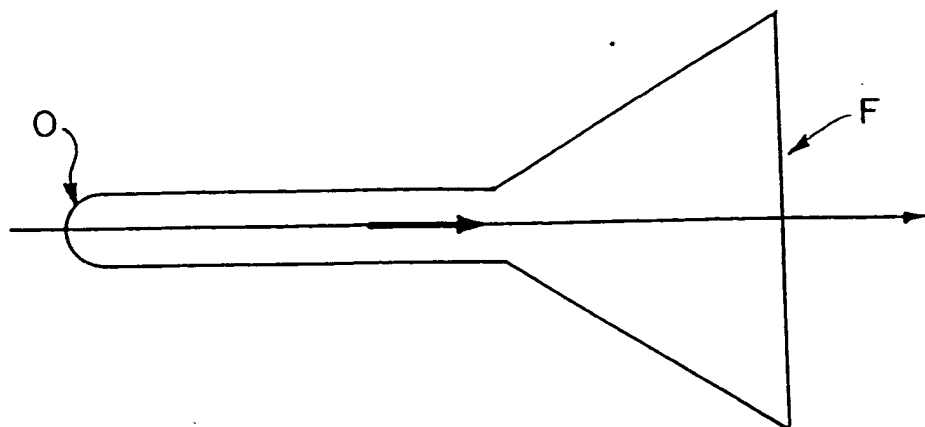


FIG. 3b

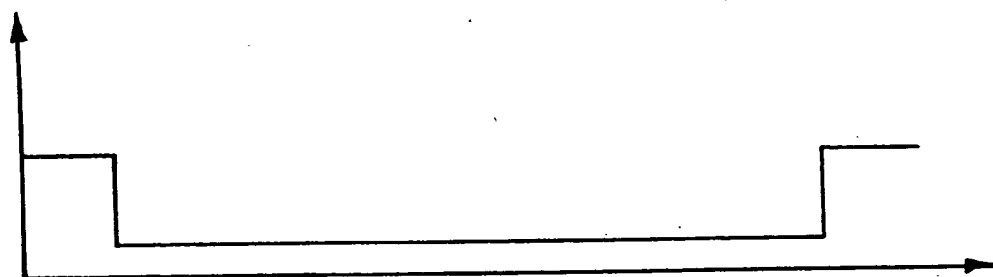


FIG. 3c

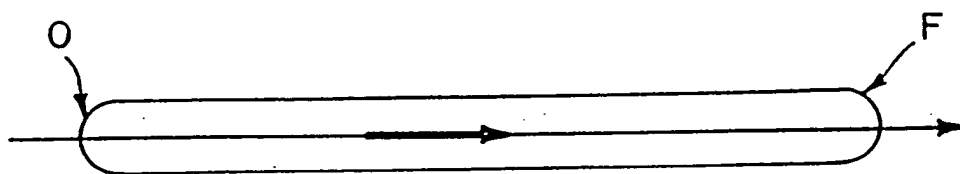


FIG. 3d



FIG. 3C

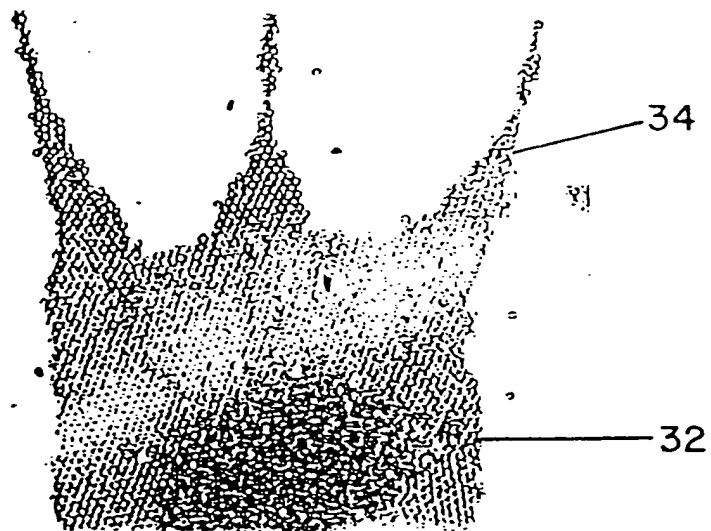


FIG. 3D

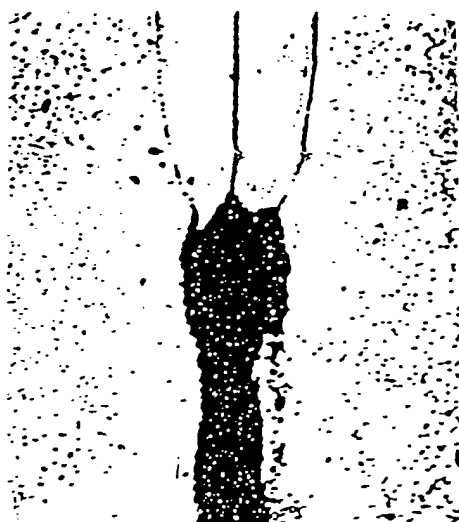


FIG. 4A

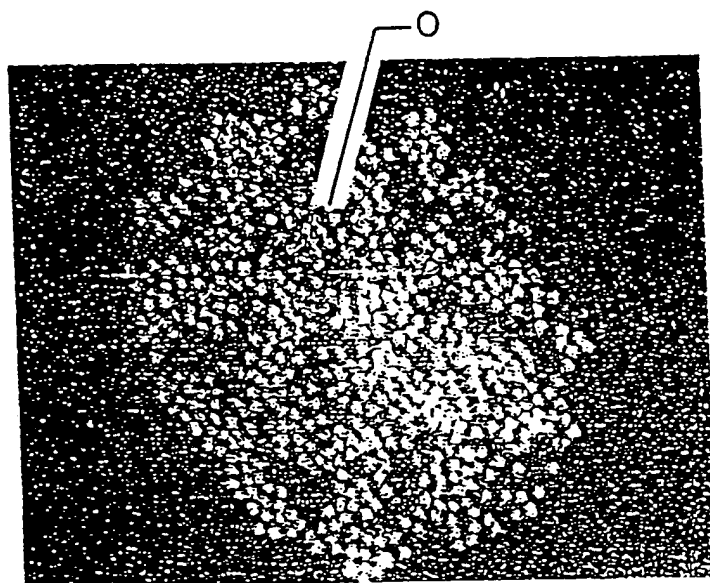


FIG. 4B

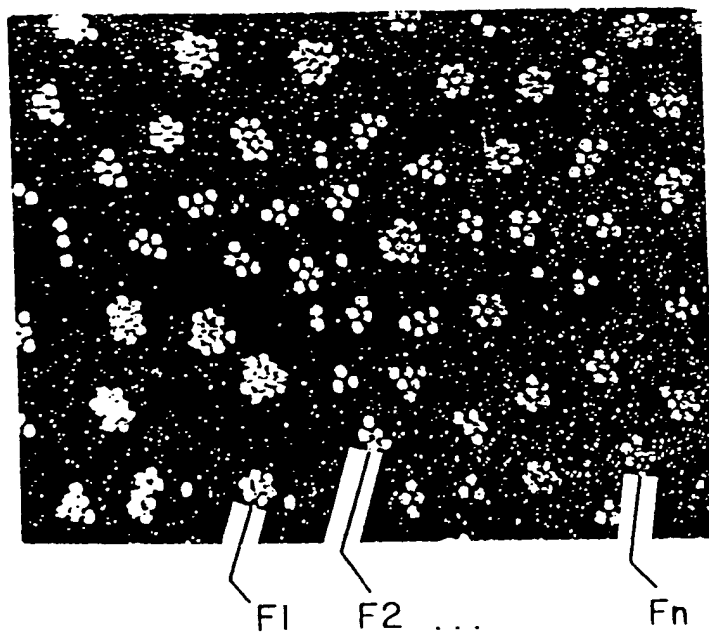


FIG. 5

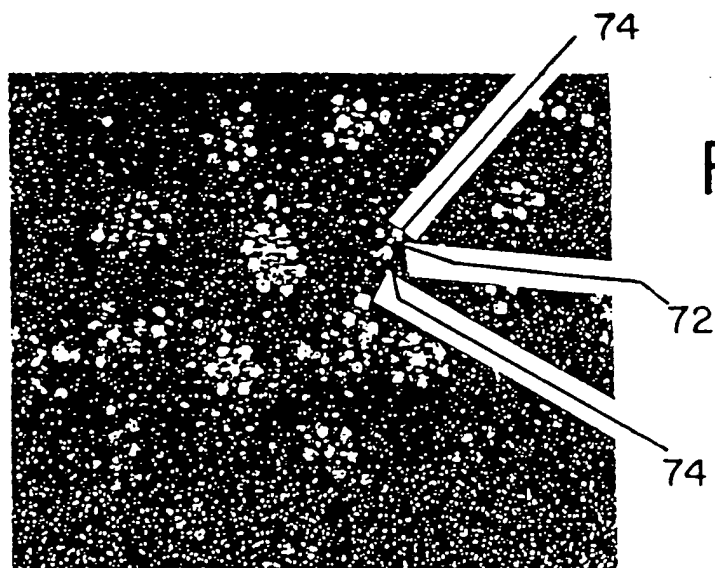
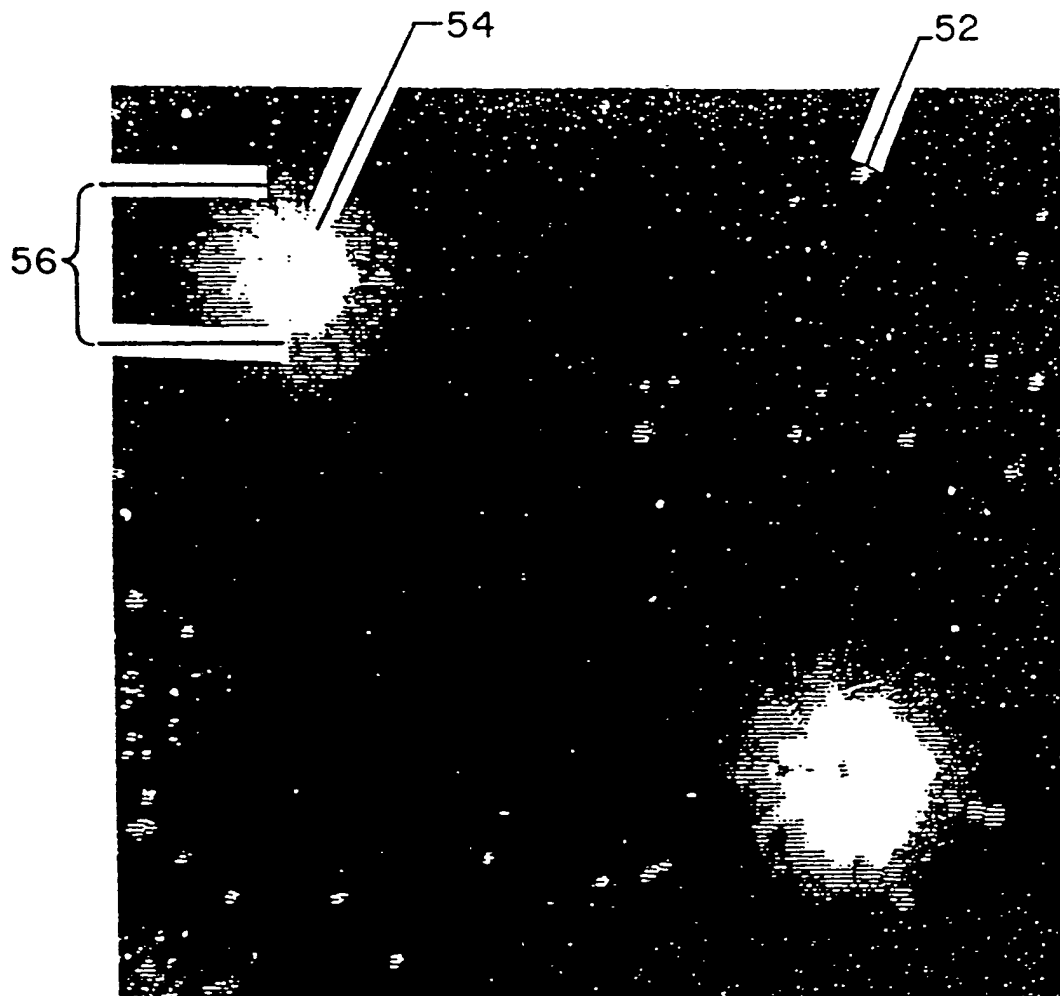


FIG. 7

FIG. 6a

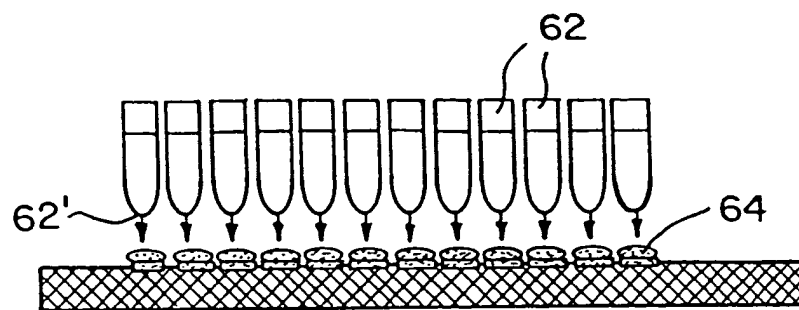


FIG. 6b

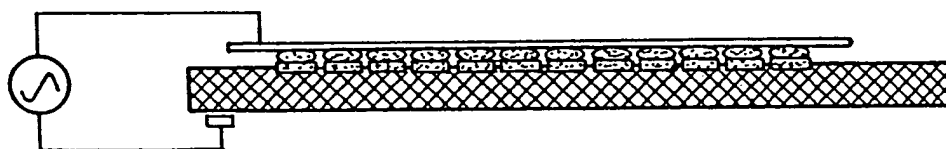


FIG. 6c

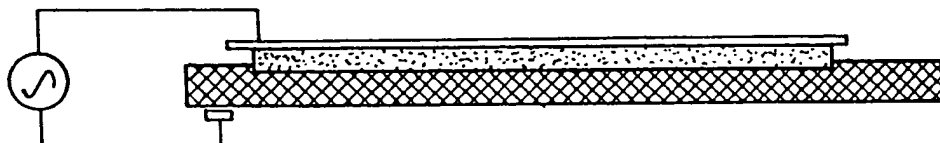


FIG. 8

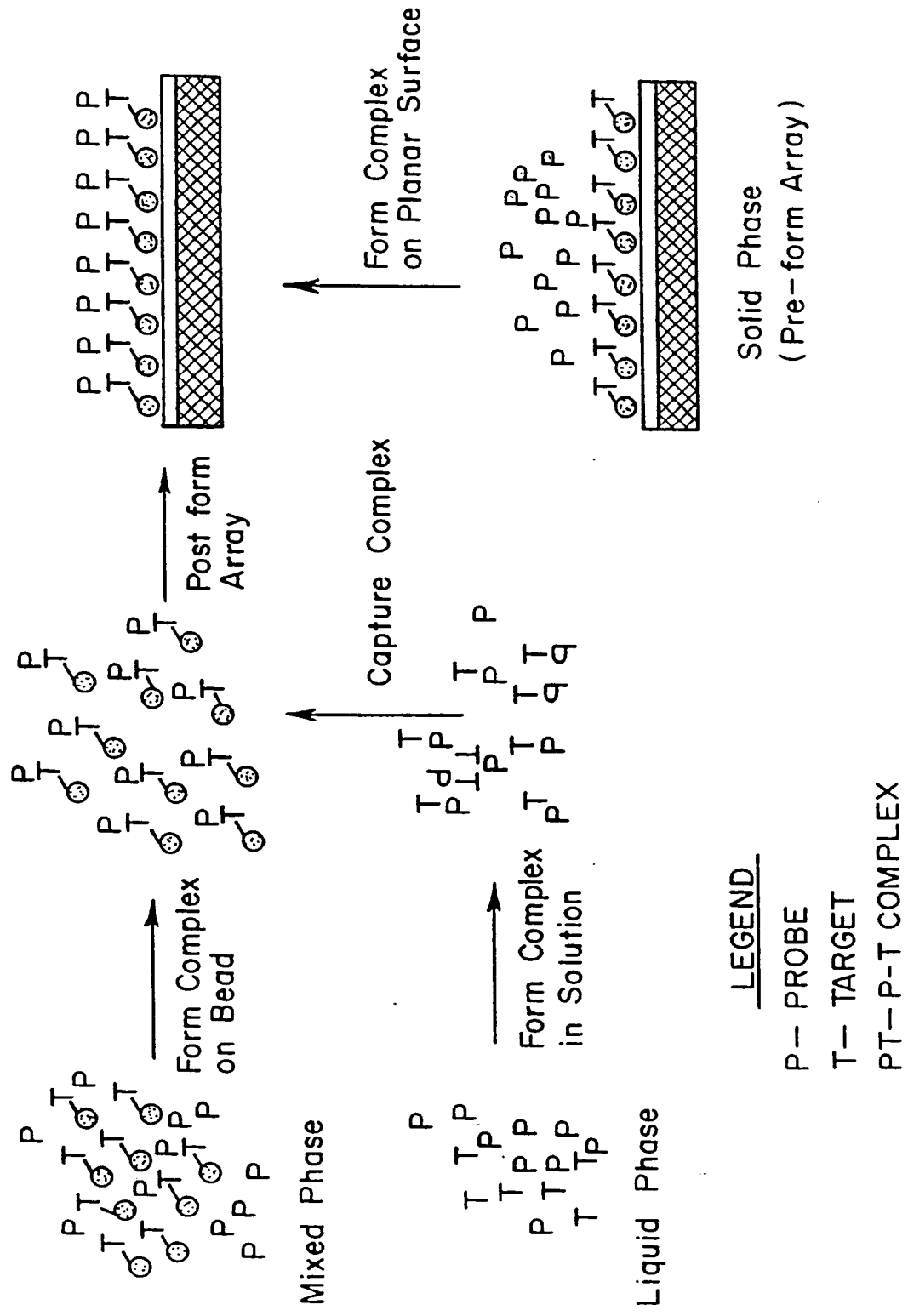


FIG. 9a

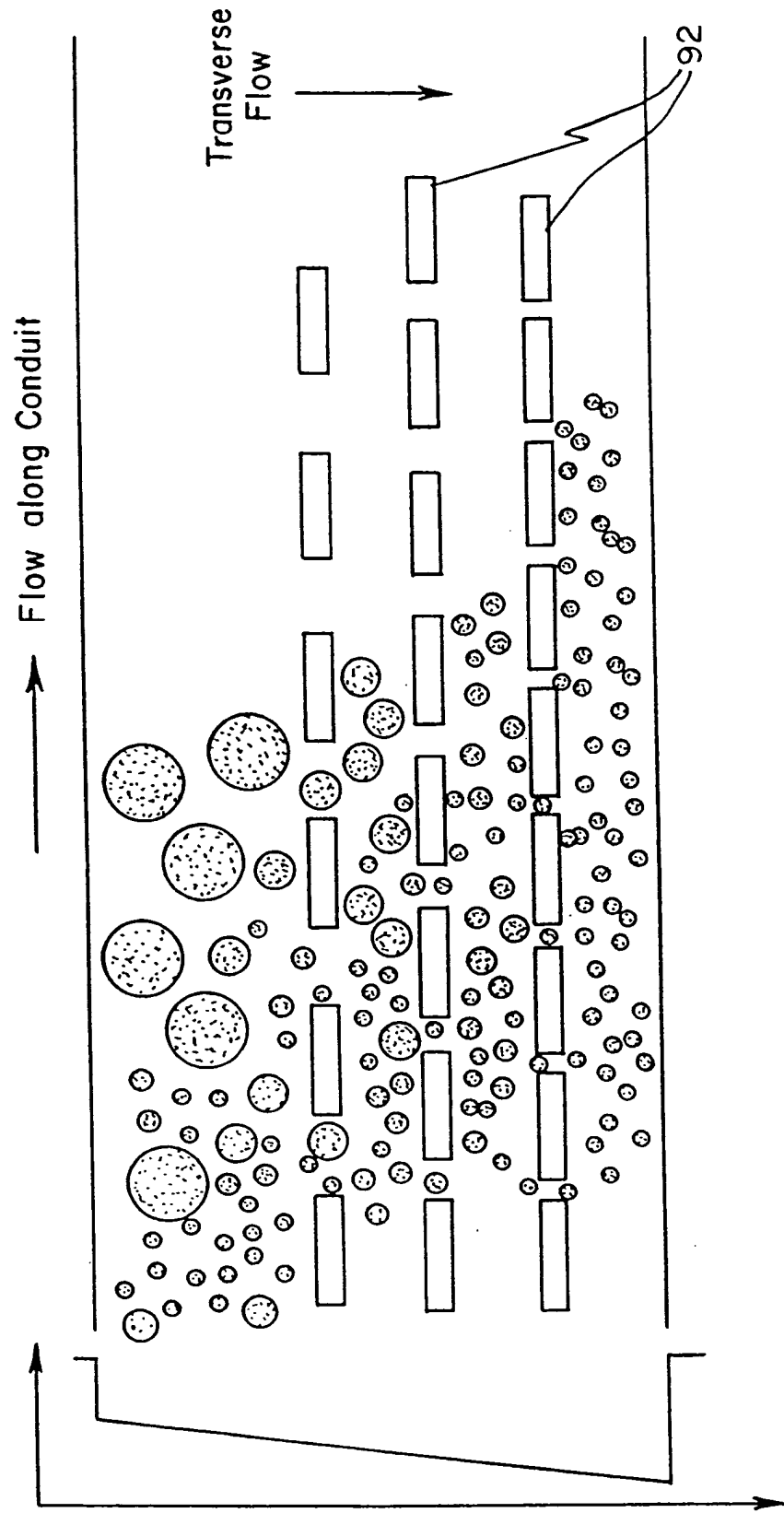


FIG. 9b

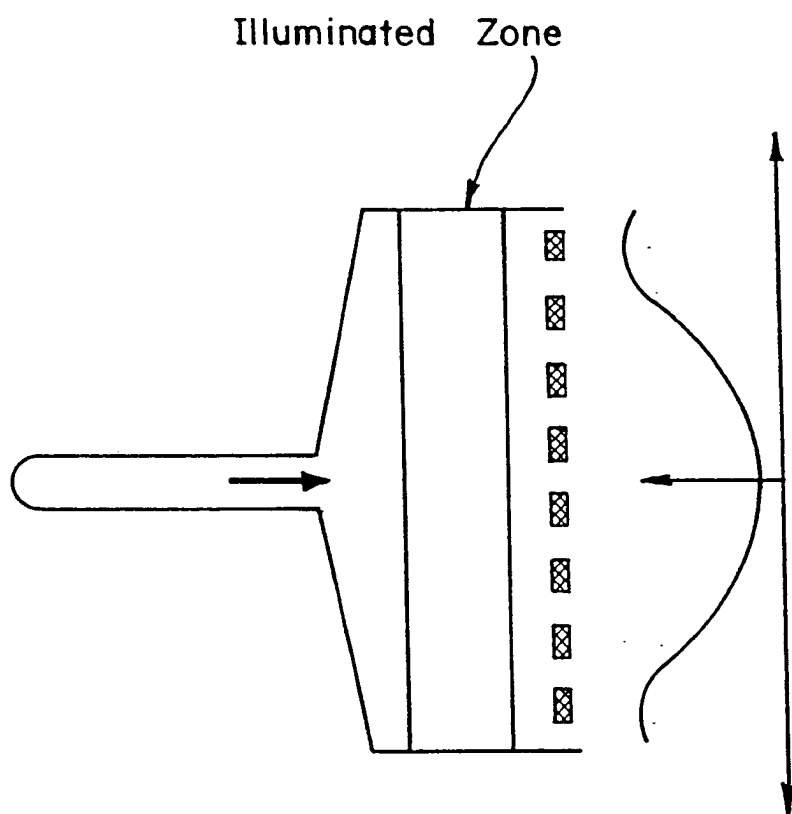
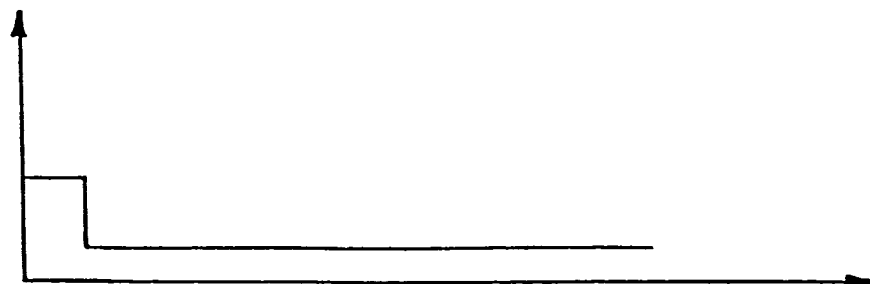


FIG. 9c



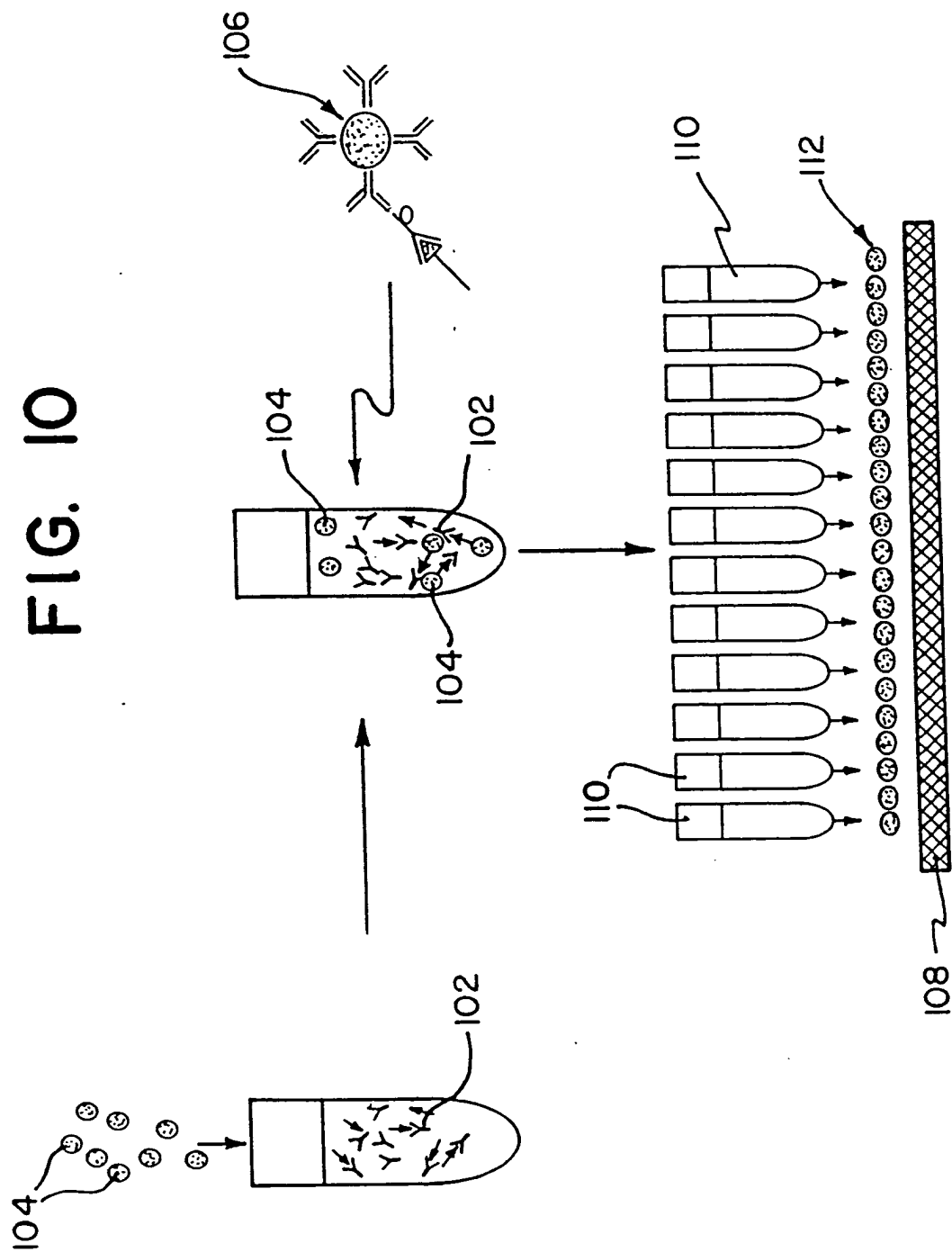


FIG. 11a

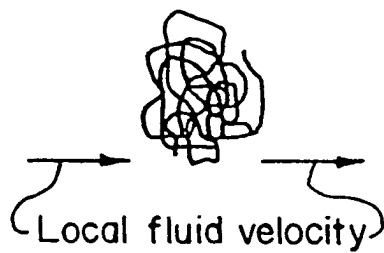


FIG. 11b

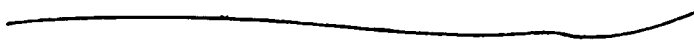


FIG. 11c

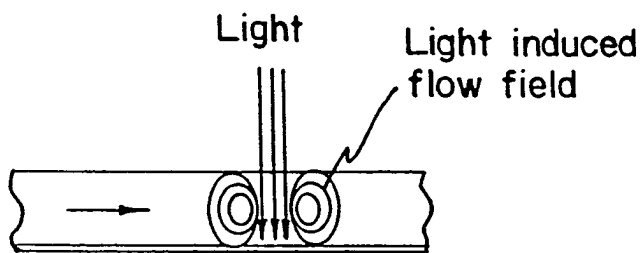


FIG. 11d

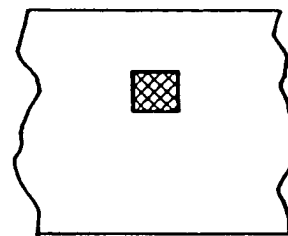
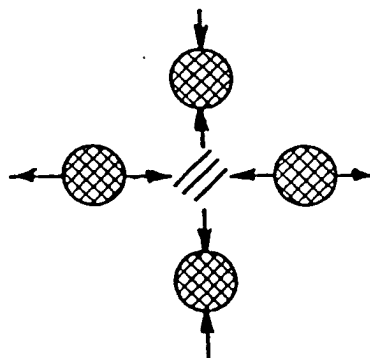


FIG. 11e





ILLUMINATION PATTERN GENERATOR

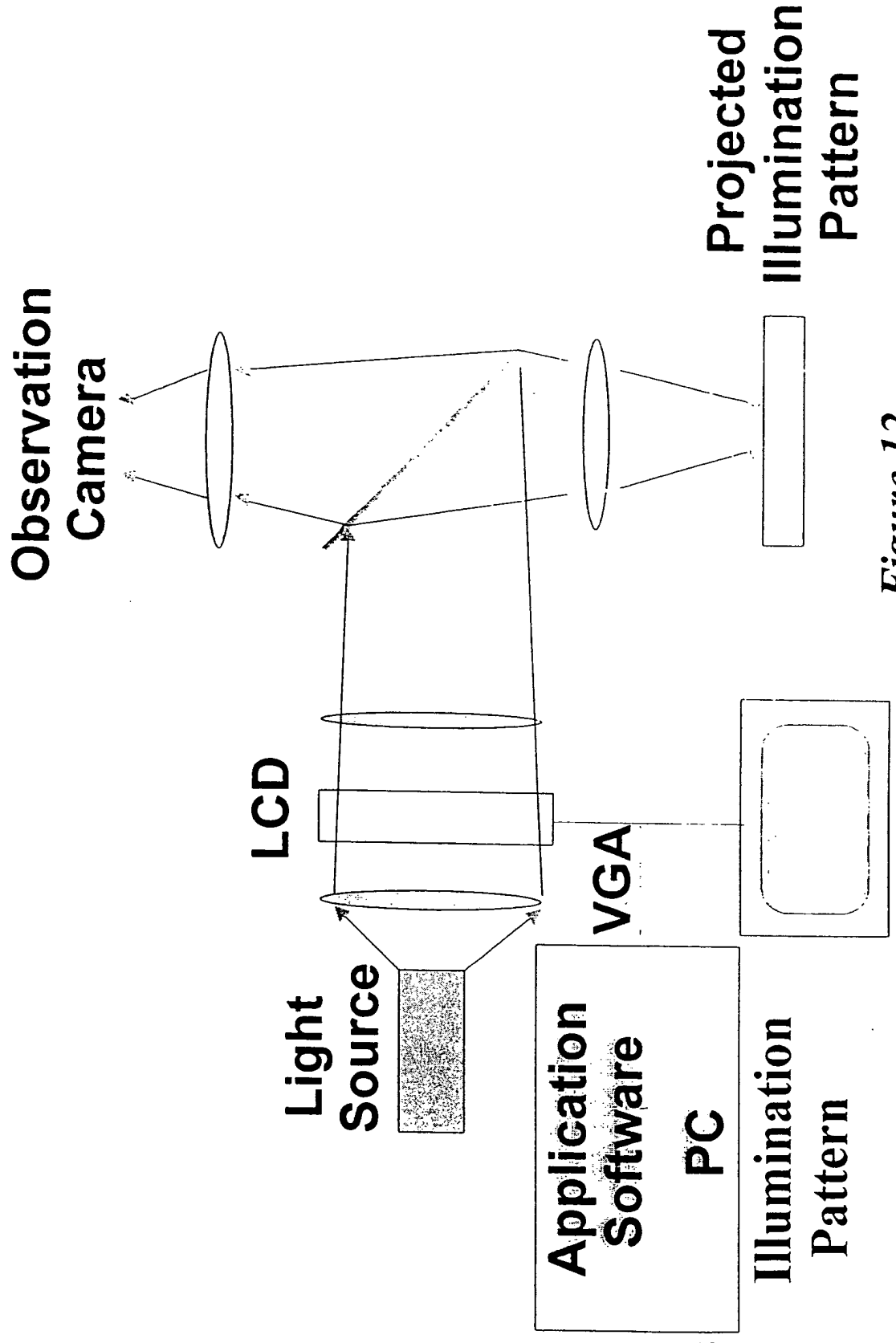
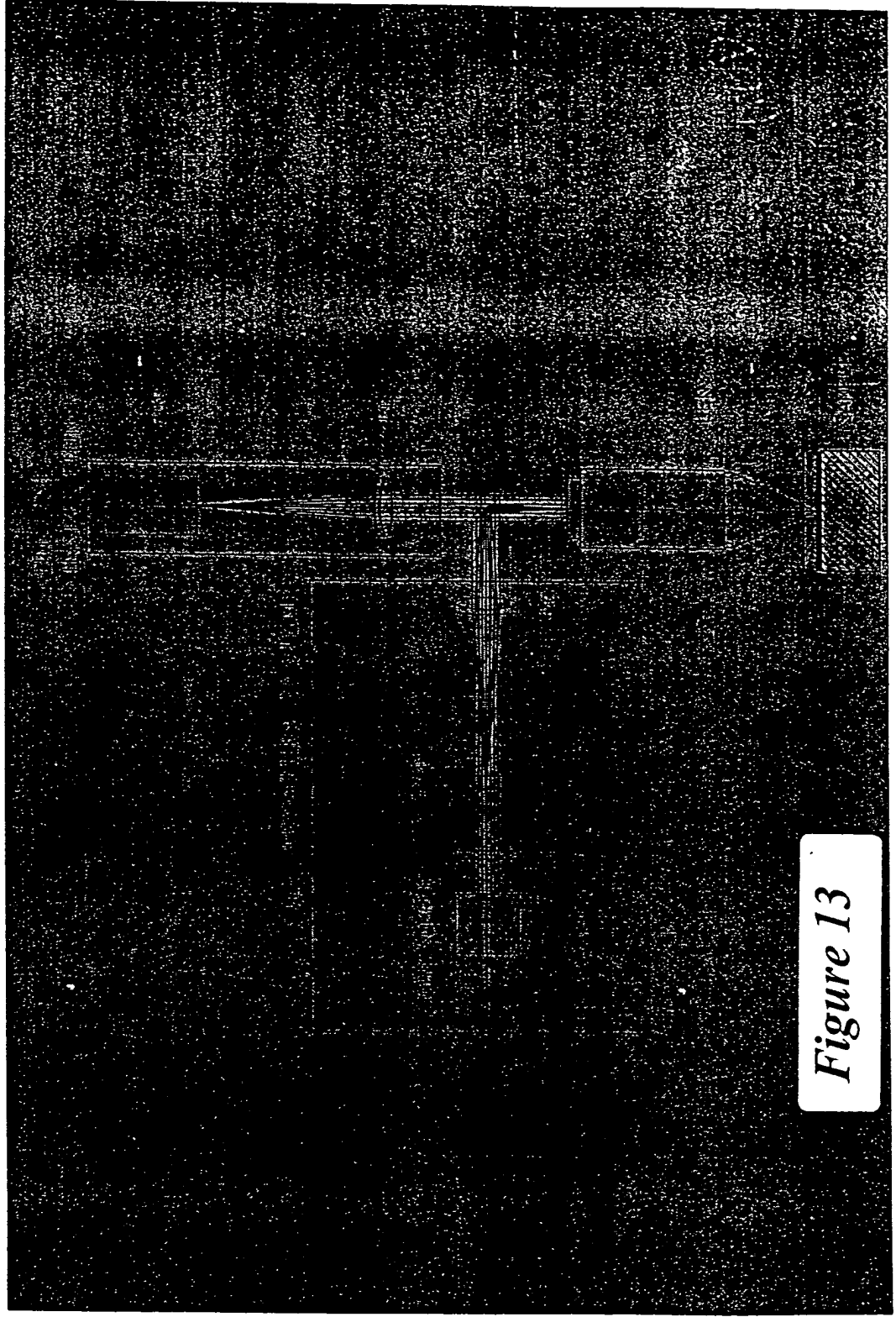


Figure 12

LCD-PARSE OPTICAL DESIGN



ARRAY SHAPE ADJUSTMENTS

CIRCLE



Figure 14a

HORIZONTAL. LINE

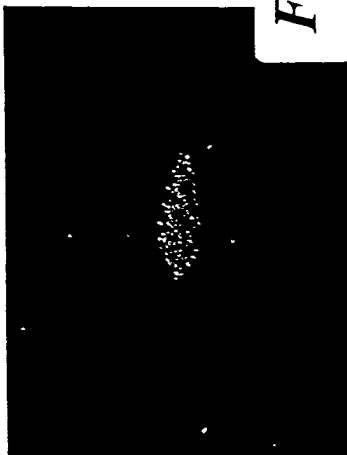


Figure 14c

VERTICAL LINE



Figure 14b

SQUARE

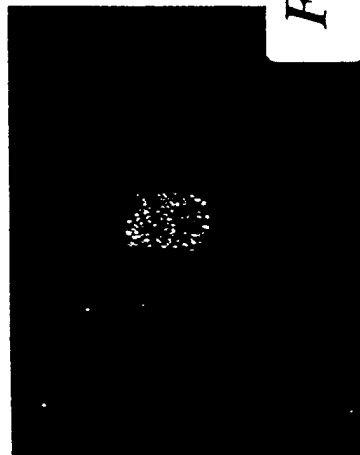


Figure 14d



COLLECTION AND ARRAY ASSEMBLY

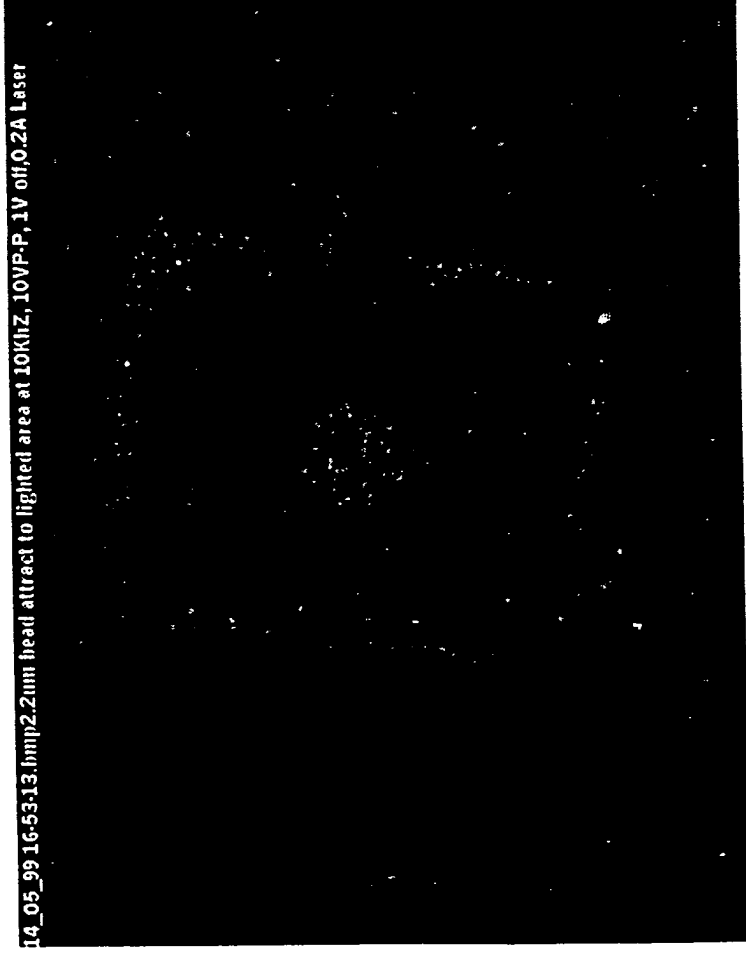


Figure 15a

EXPULSION AND CONFINEMENT

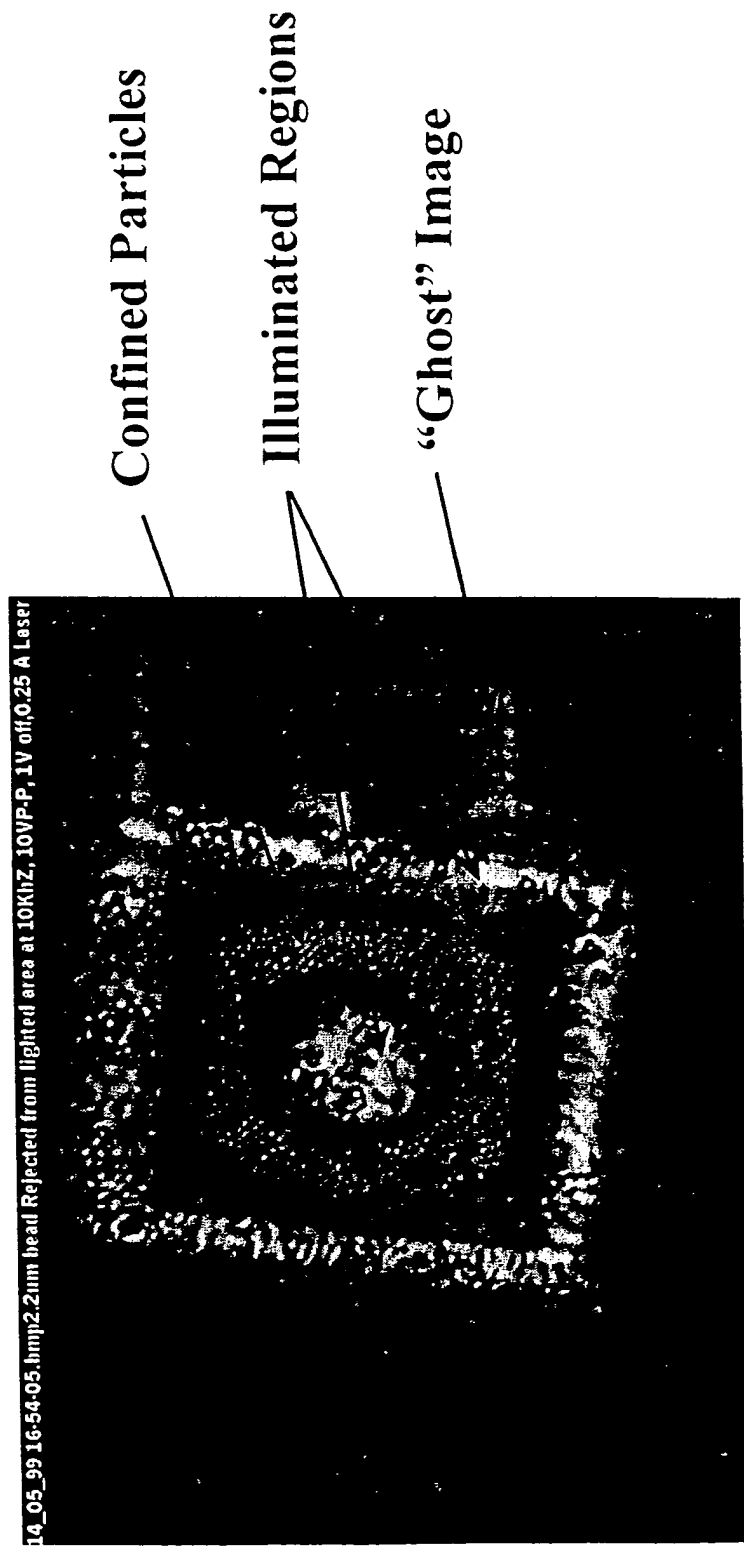


Figure 15b

DRAG AND DROP

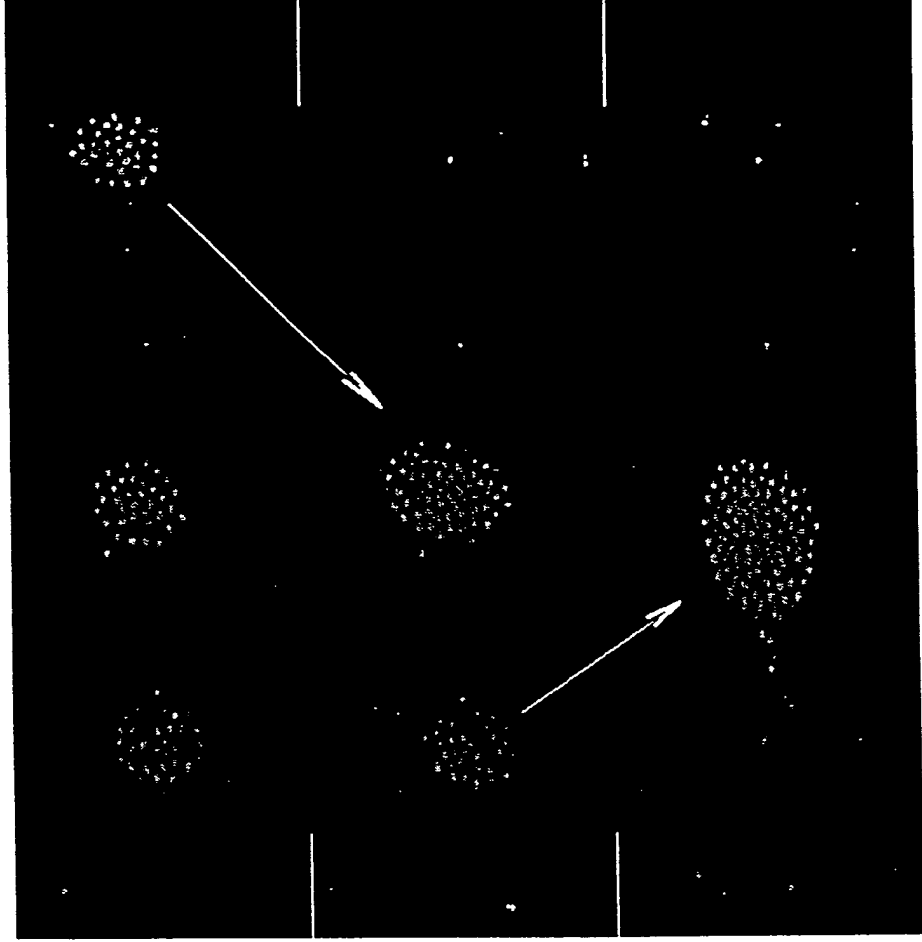


Figure 16



Programmable Array Reconfiguration and Segmentation

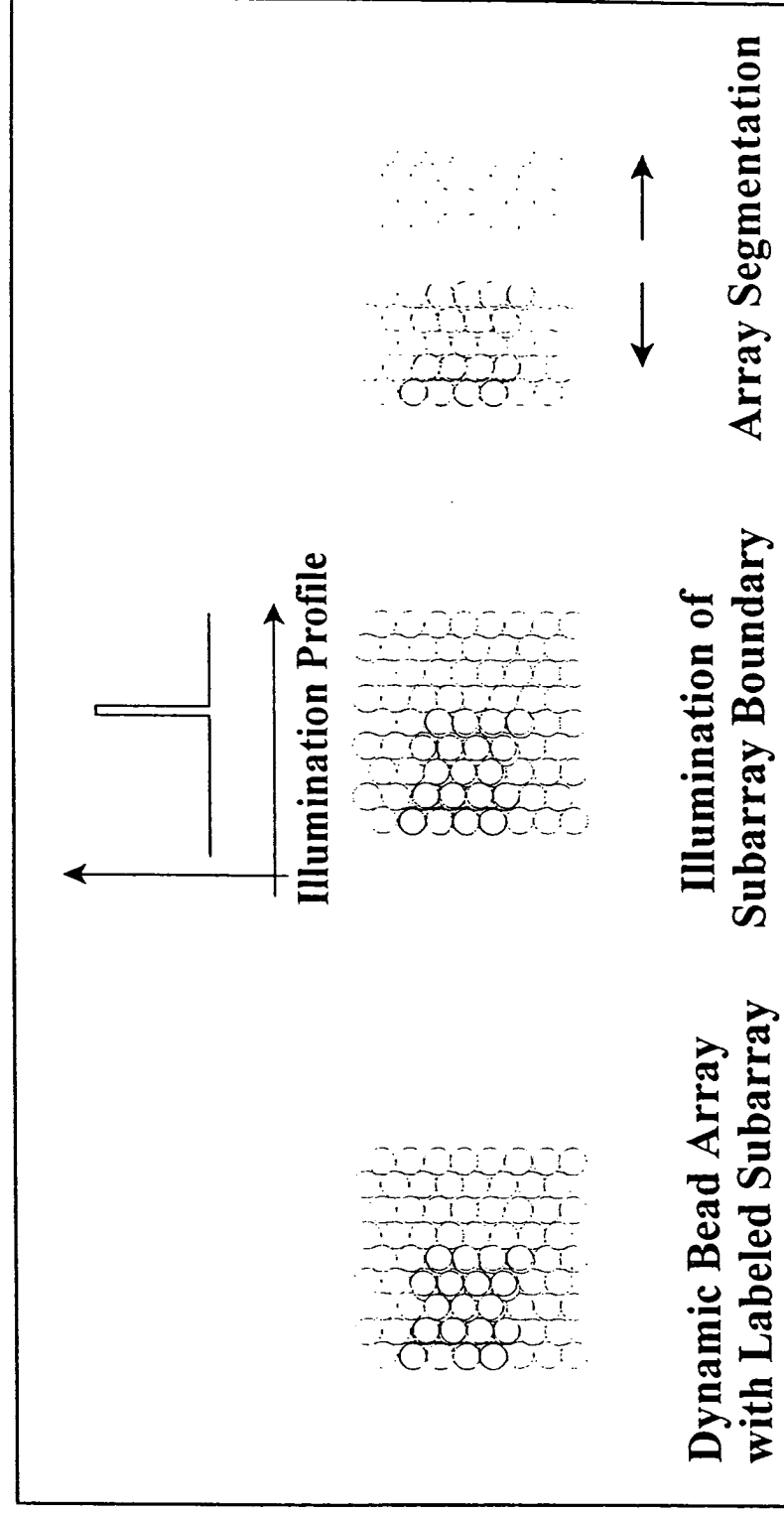


Figure 17

LCD PARSE

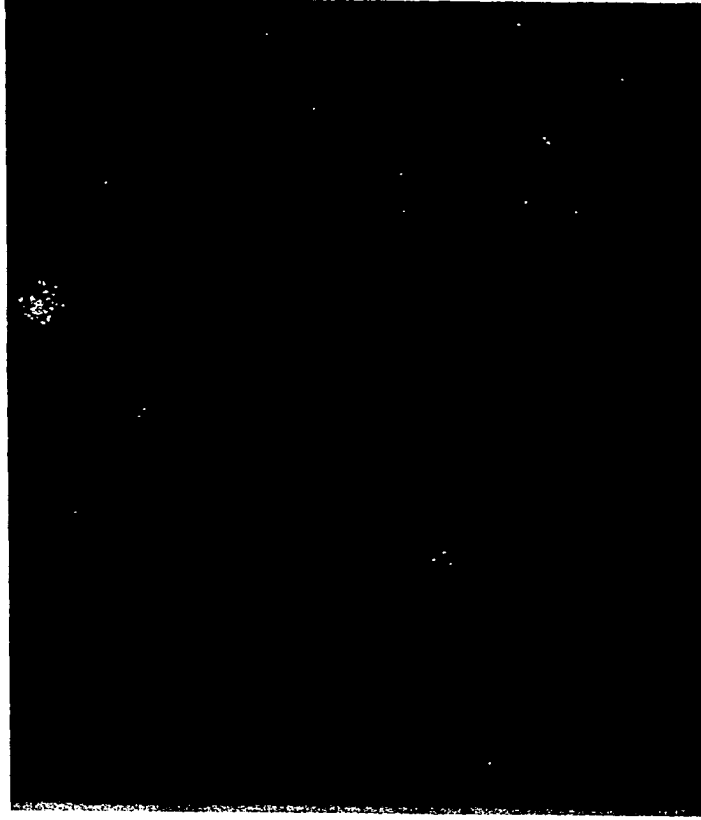


Figure 18a



Figure 18b



LCD PARSE

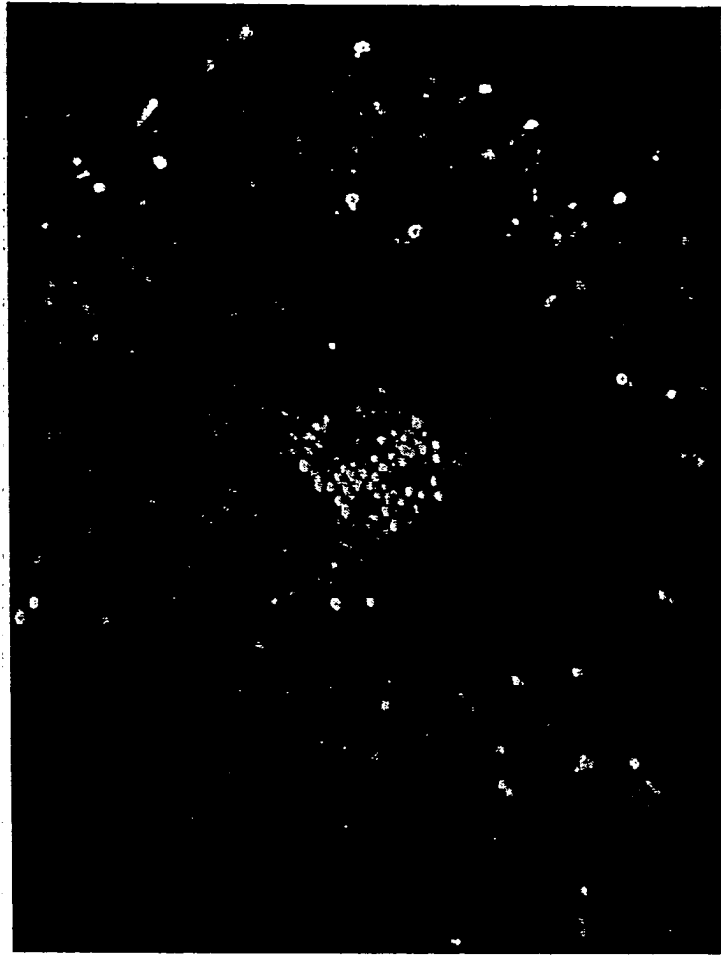
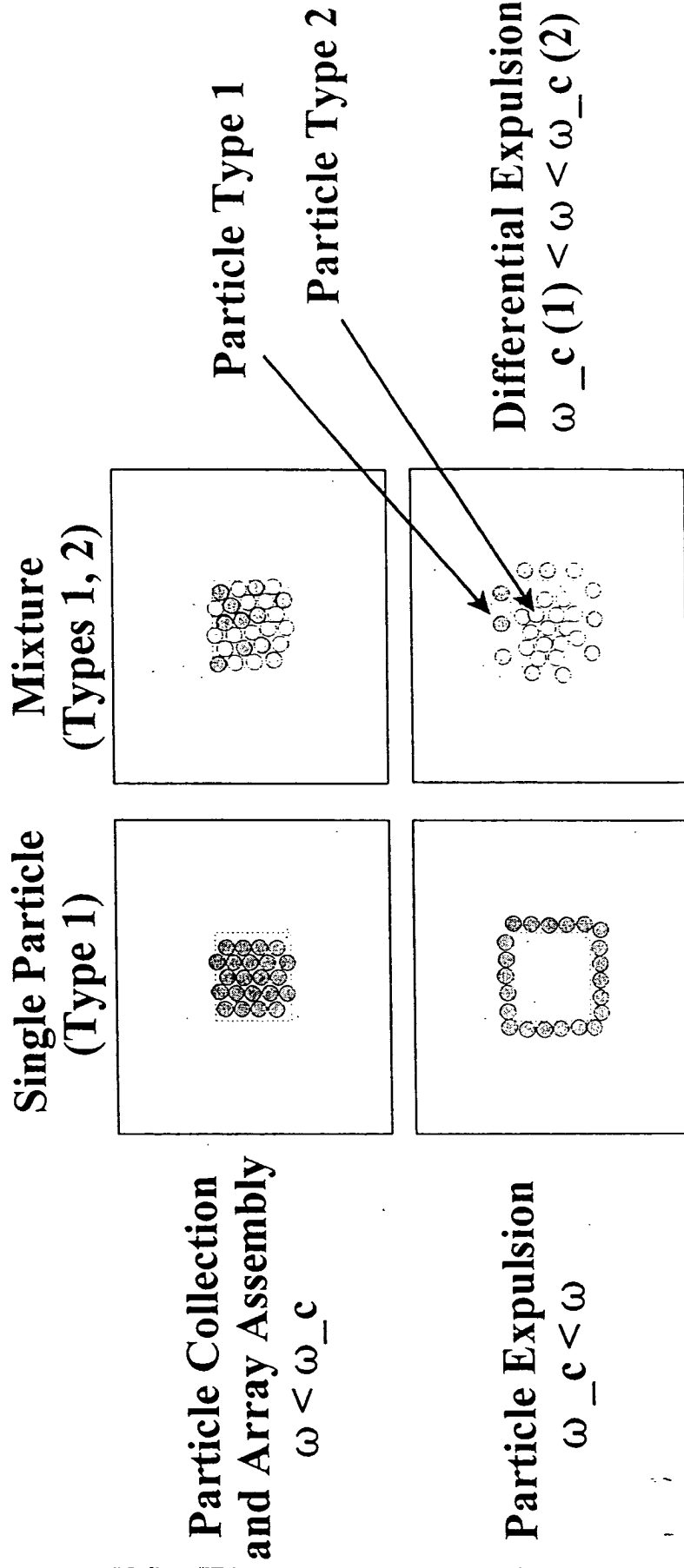


Figure 19



FRACTIONATION

Differential Frequency Dependence of Particle Expulsion
(NOTE: ω_c denotes a characteristic frequency)



$\omega_c(\text{Type 1}) < \omega_c(\text{Type 2})$

Figure 20a

FRACTIONATION

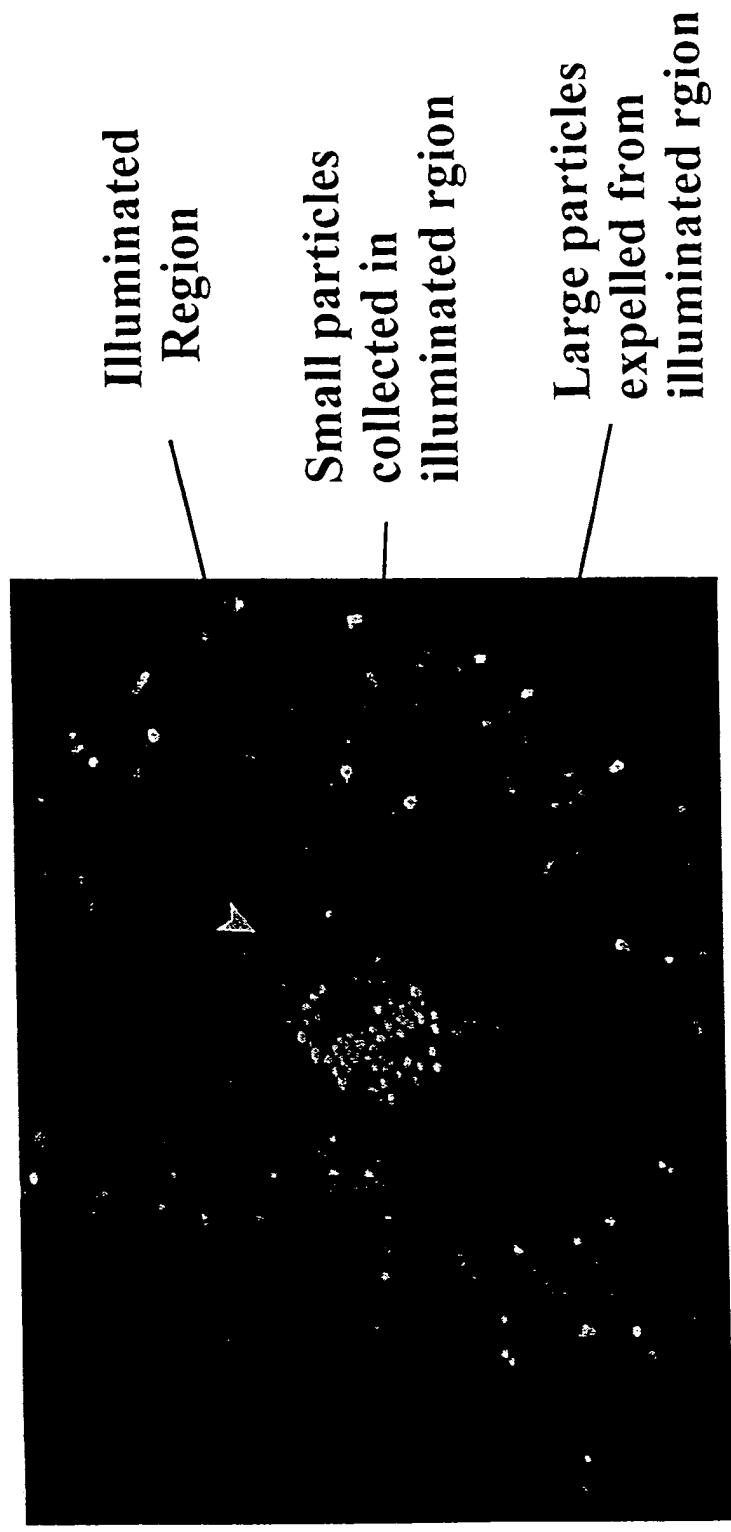
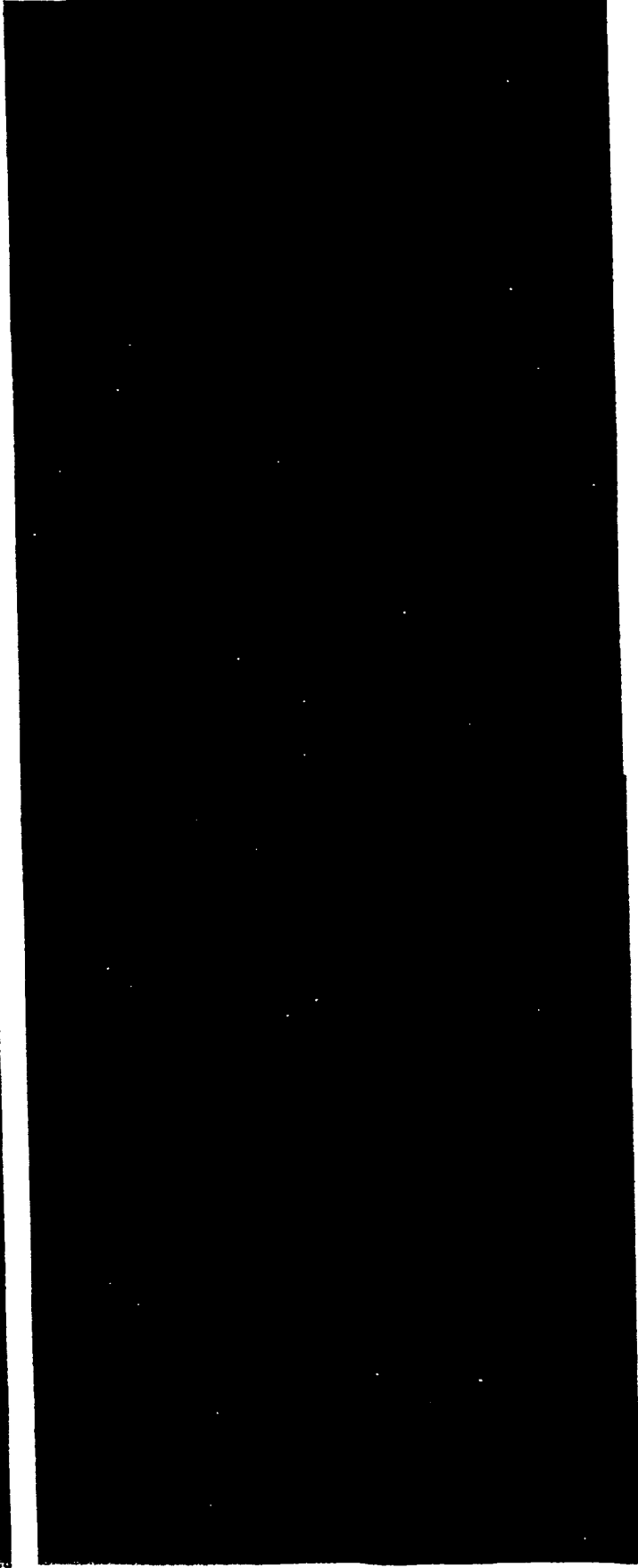


Figure 20b

LCD PARSE



2030

Figure 21a

Figure 21b

Encoding Methodologies

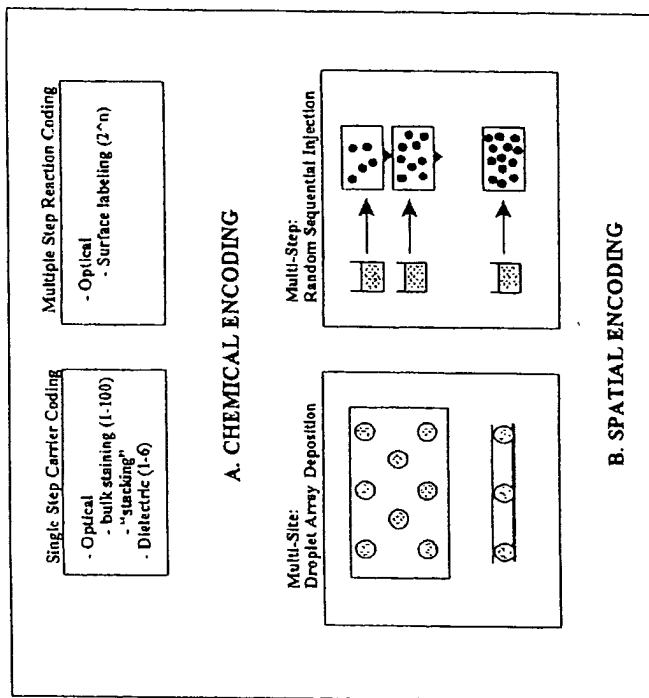


Figure 22a

1 - Pre-Processing

2 - Post-Processing

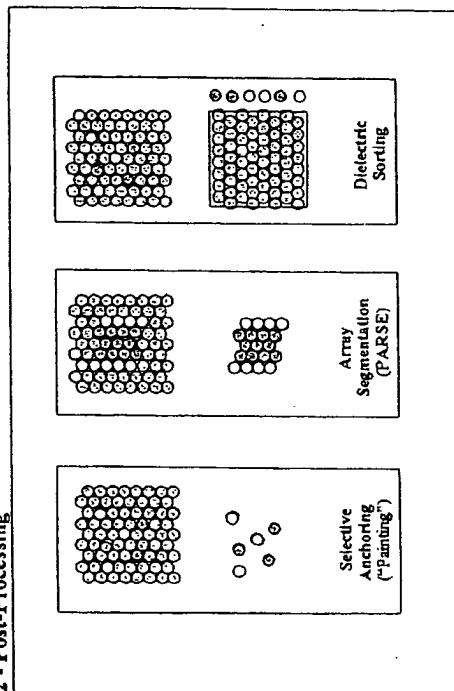


Figure 22b

RANDOM SEQUENTIAL INJECTION

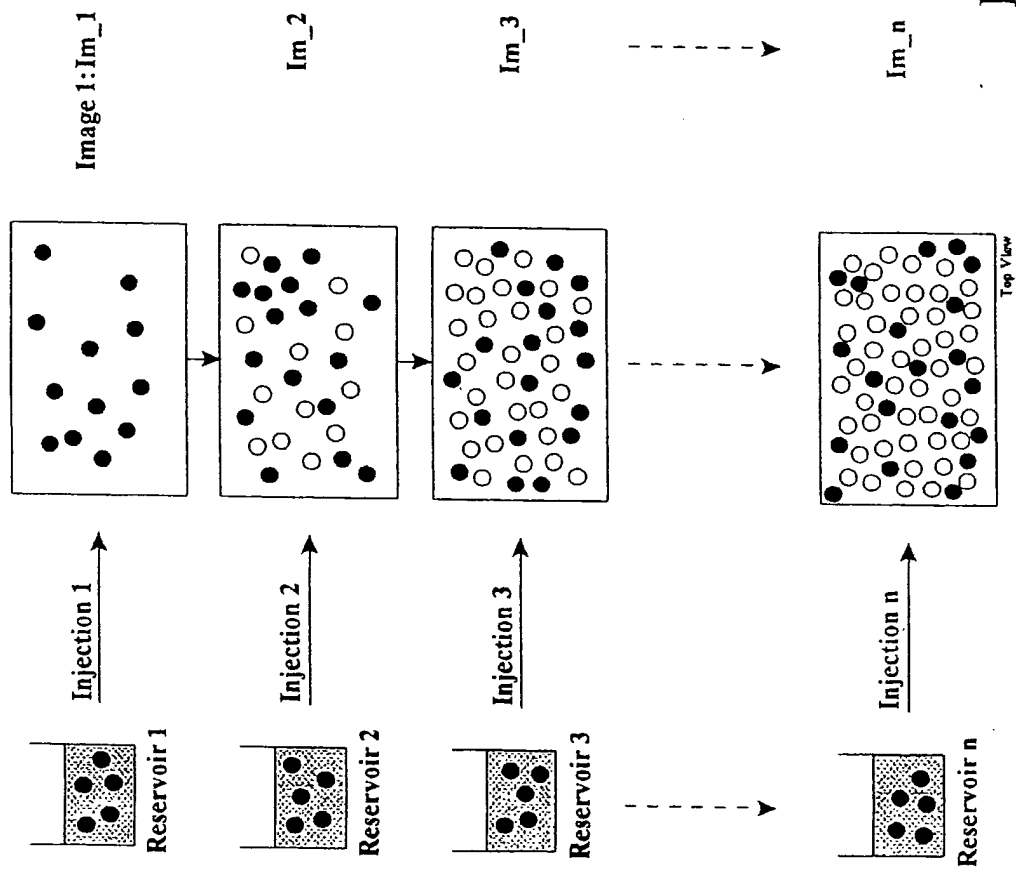


Figure 23

SEQUENTIAL INJECTION & LIGHT-CONTROLLED ARRAY PLACEMENT

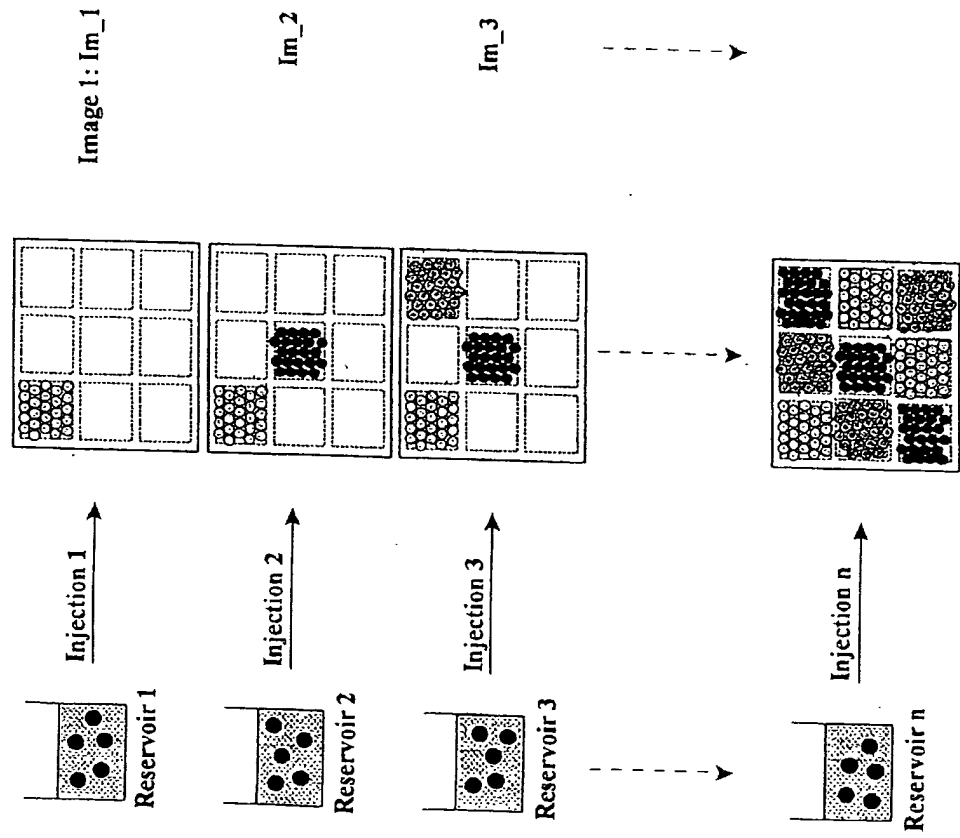


Figure 24

MACRO-TO-MICRO TRANSITION

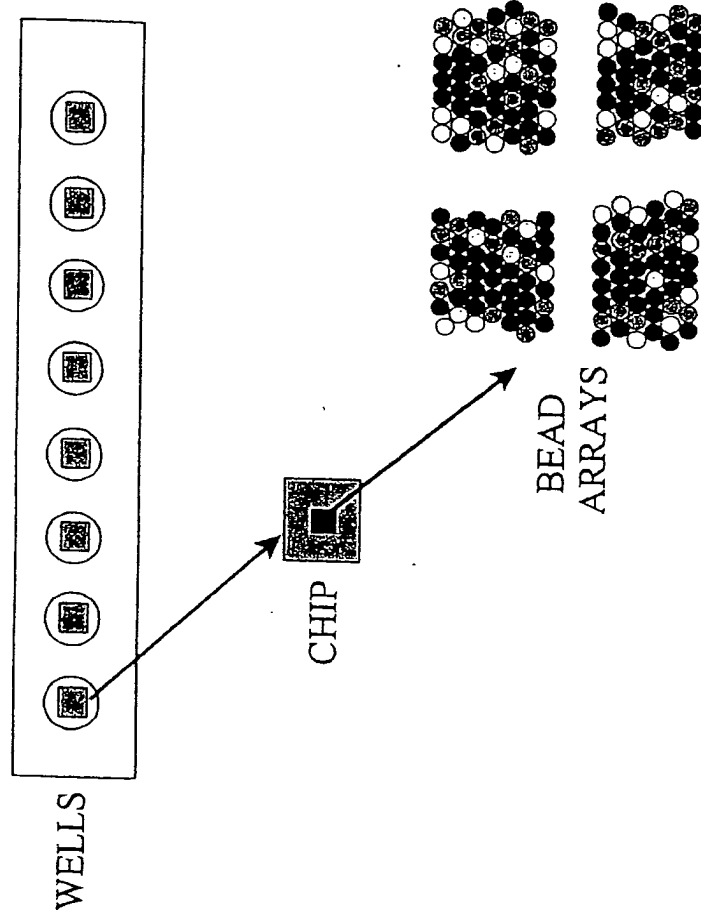
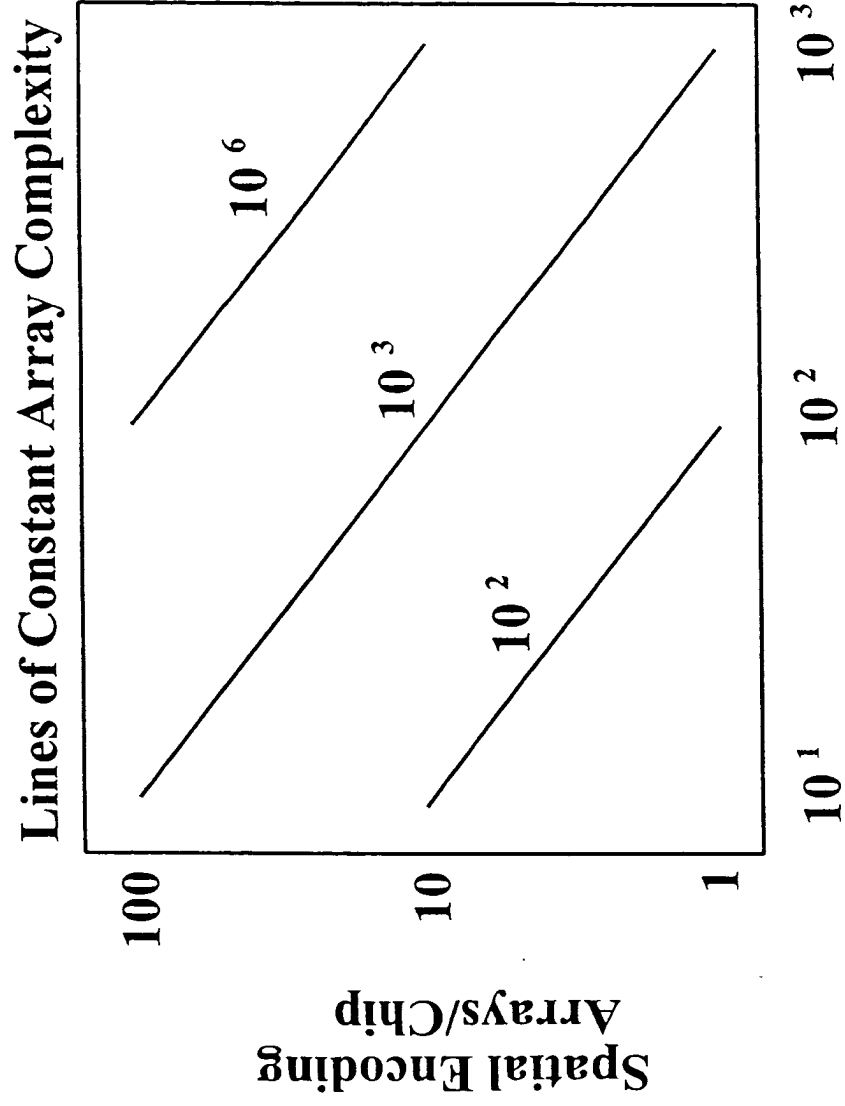


Figure 25a

ARRAY ENCODING



Chemical Encoding
Codes/Array

Figure 25b



ARRAY ENCODING

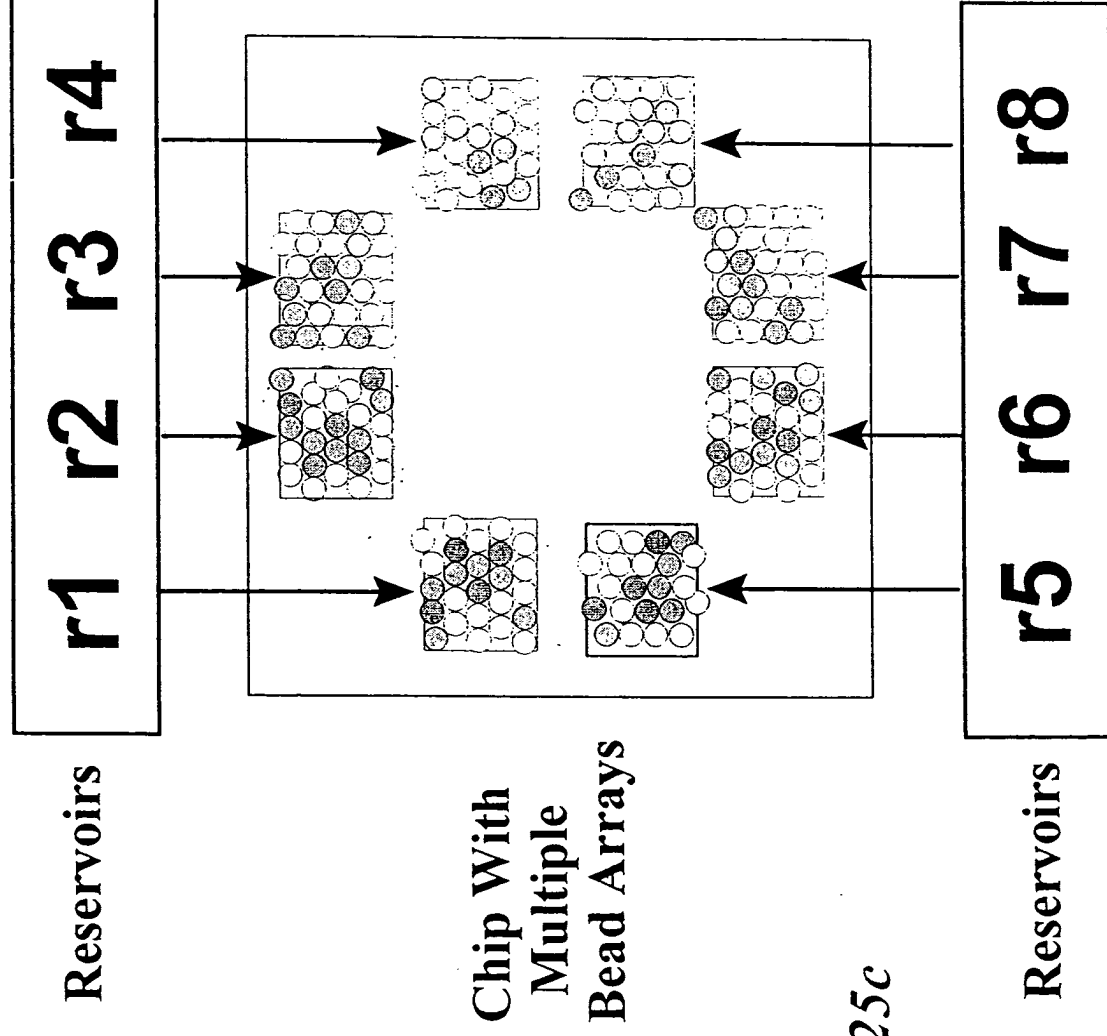


Figure 25c



SEQUENTIAL ASSEMBLY: “BANDING”

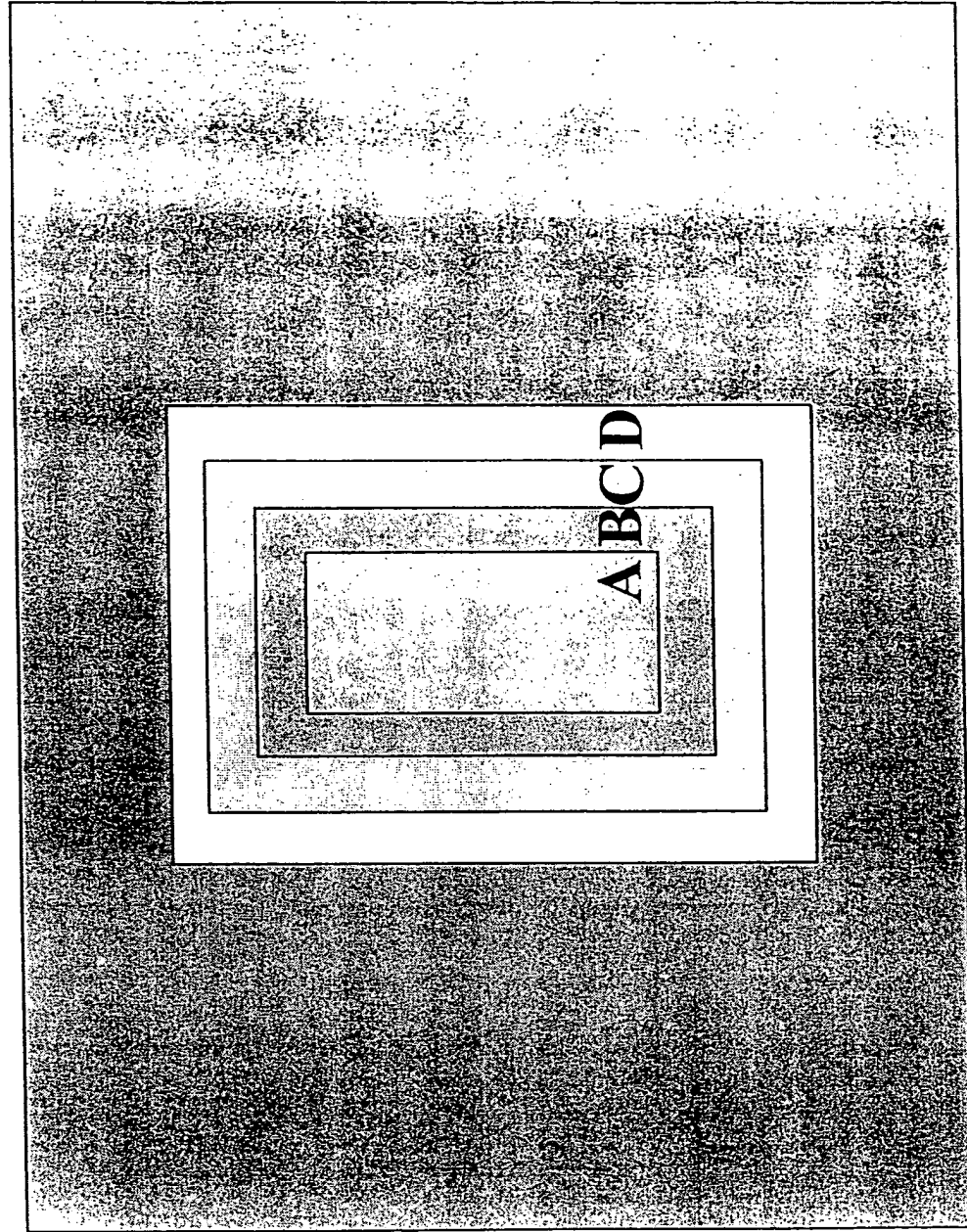


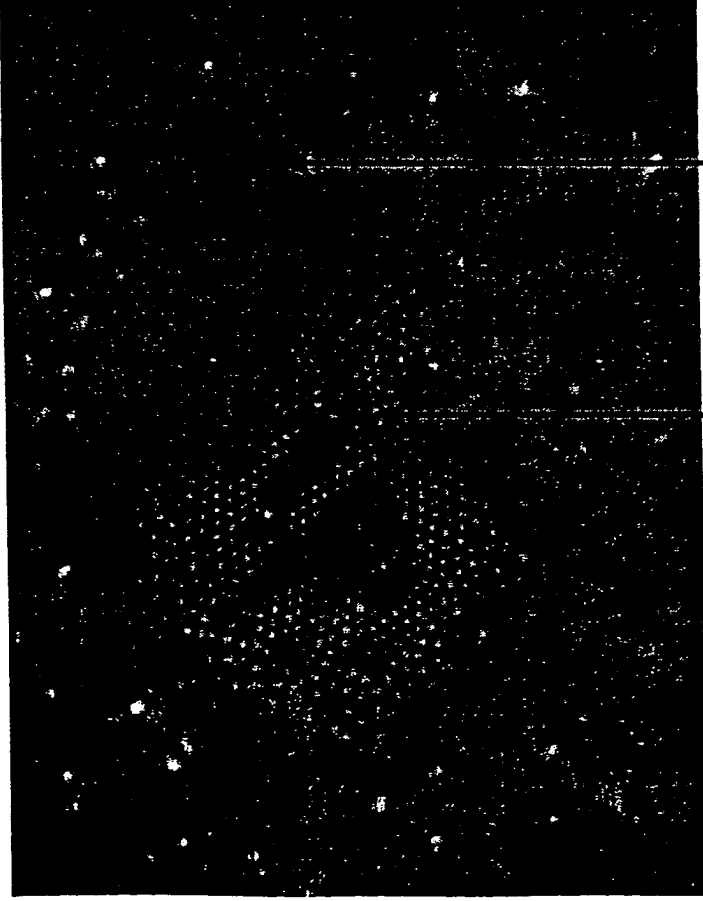
Figure 26a



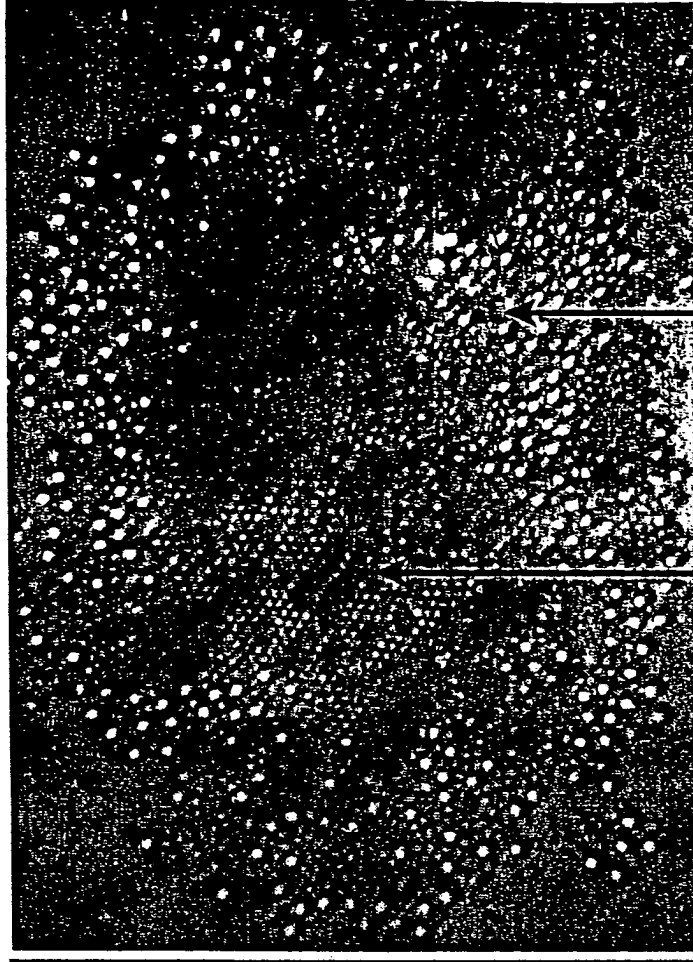
SEQUENTIAL ASSEMBLY: "BANDING"

Mixture of Two Particle Types

Brightfield Image



Darkfield Image



2.8 μm 5.5 μm

2.8 μm 5.5 μm

Figure 26b



LCD PARSE

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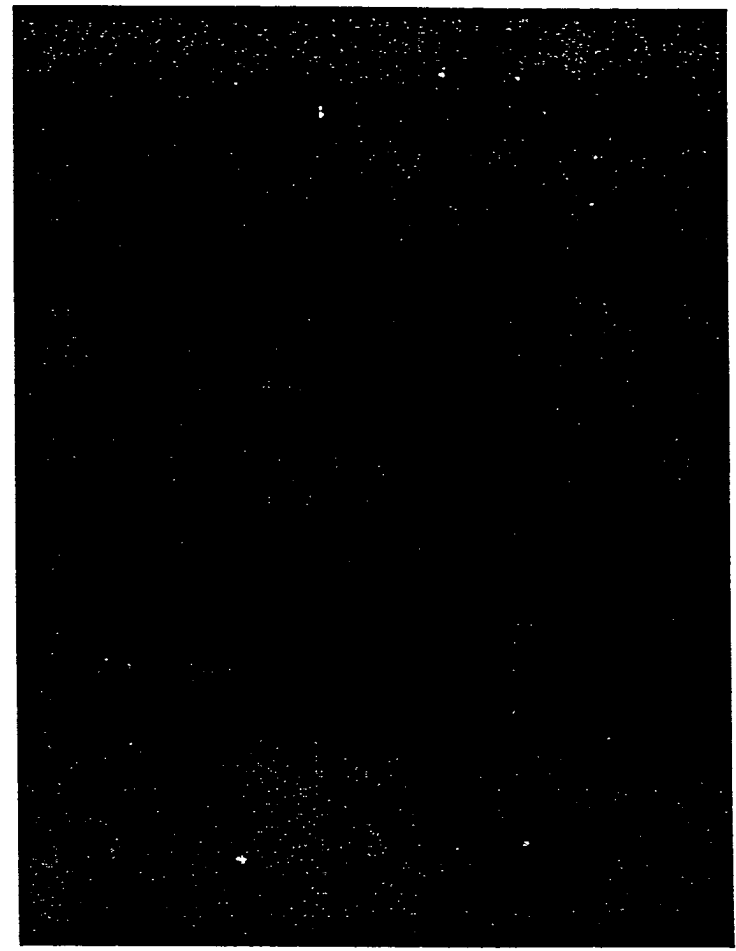


Figure 27



ARRAY OF RANDOM SUBARRAYS

A UNIQUE TWO-DIMENSIONAL BAR CODE

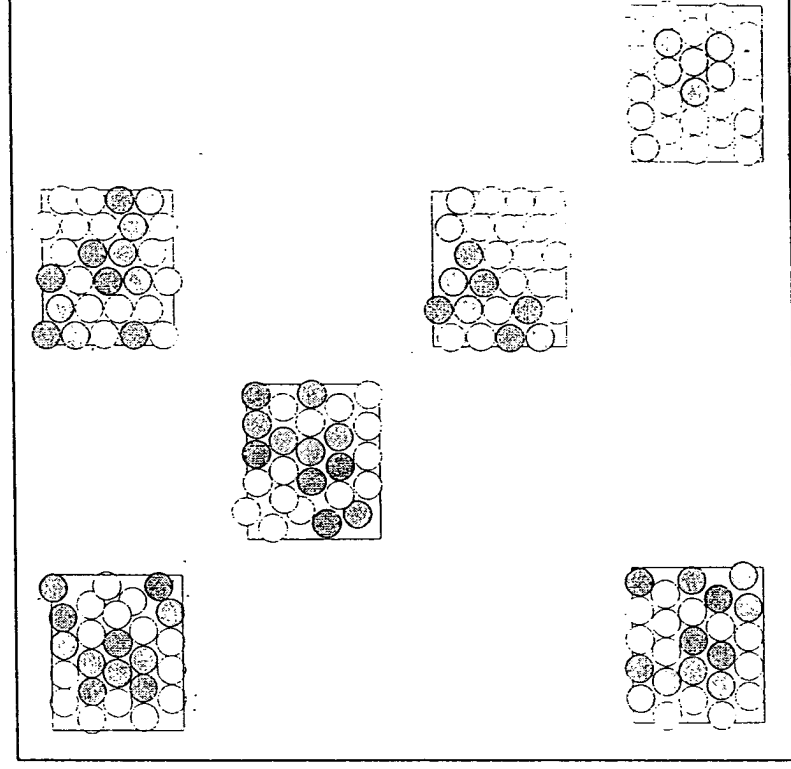


Figure 28



LIGHT-INDUCED FLUID FLOW

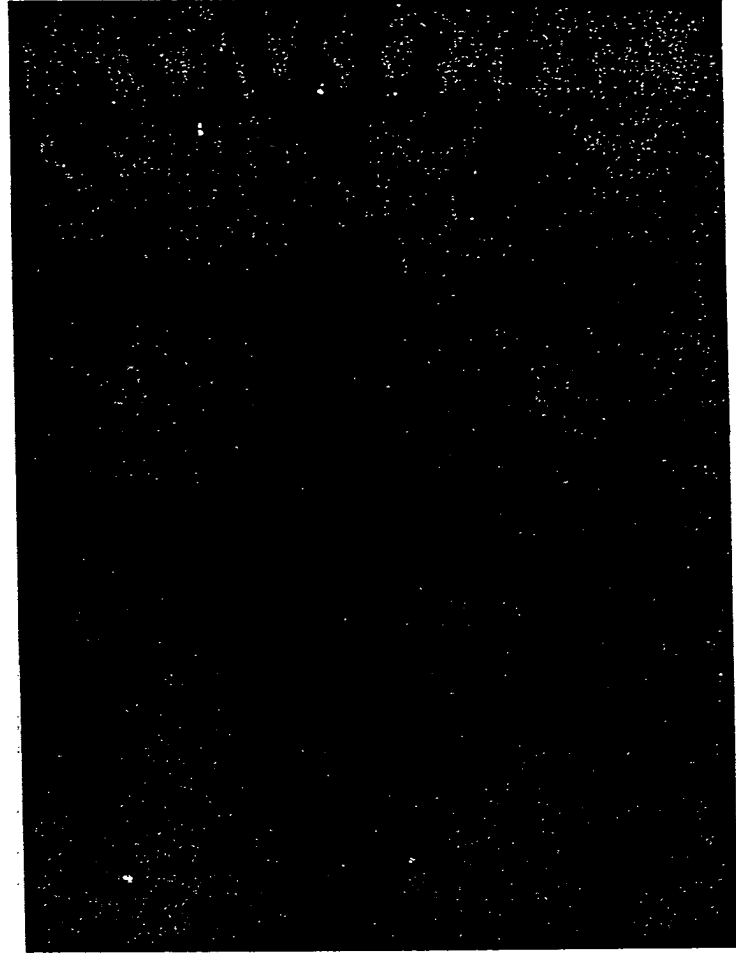


Figure 29